

Vendor Seminar

30 October 2015 For HKEx Information Vendors and Independent Software Vendors













Agenda



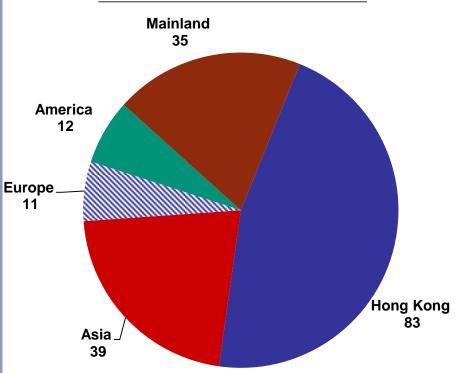
1. Market Overview and Updates	By Winnie Poon Head of Market Data Global Markets Division
2. Business Initiatives	By Winnie Sin Sales and Marketing, Market Data Global Markets Division
3. Upcoming Client Activities	By Karen Lam Vendor Support and Data Management, Market Data Global Markets Division
4. Highlight on Compliance Issues	By Raymond Lo Compliance, Market Data Global Markets Division
5. Q&A	

2015 Updates *Market Overview - Client Classification*





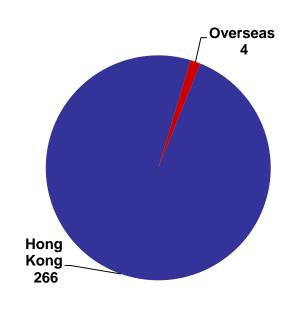
Real-time Information Vendors: 180



Information business	53
Exchange Participants and Affiliates	31
Banks, buy-sides & other financial institutions	52
Media	13

Telecommunications service providers	5
System vendors	11
Niche players	3
Mainland Brokers	

End-Users

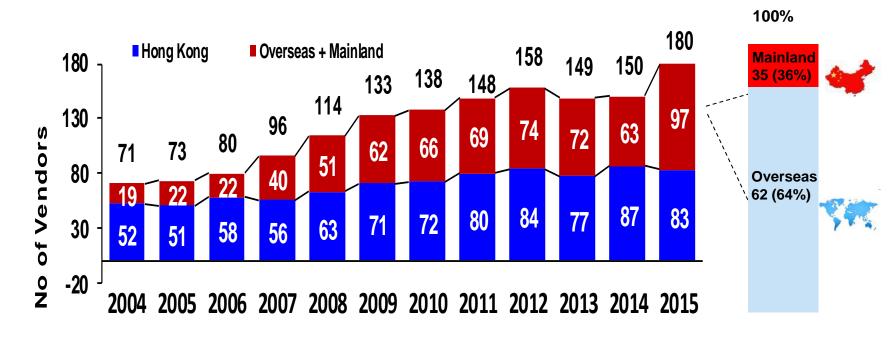


Exchange Participants	266
Non-Exchange Participants	4

2015 Updates Market Overview – Real-time Data Vendors



As of Sep 2015



Total number of real-time data vendors is 180 by September 2015, 19% are from Mainland China.

2015 Updates OMD-C & OMD-D Subscription Status of Direct Connection HKE Clients

OMD-C: Total of 326 Direct Connection Clients:

	IVs	EUs	Total
(1) No. of clients	56	270	326
(2) No. of connections			
OMD SS	49	377	389
OMD SP	47	26	73
OMD SF	23	15	41

OMD-D: Total of 86 Direct Connection Clients:

	IVs	EUs	Total
(1) No. of clients	40	36	86
(2) No. of connections			
OMD DS	26	10	36
OMD DP	39	25	64
OMD DF	23	18	41

As of Sep 2015

The overall take up rate is satisfactory and we will continue to promote our datafeed products

Way Forward



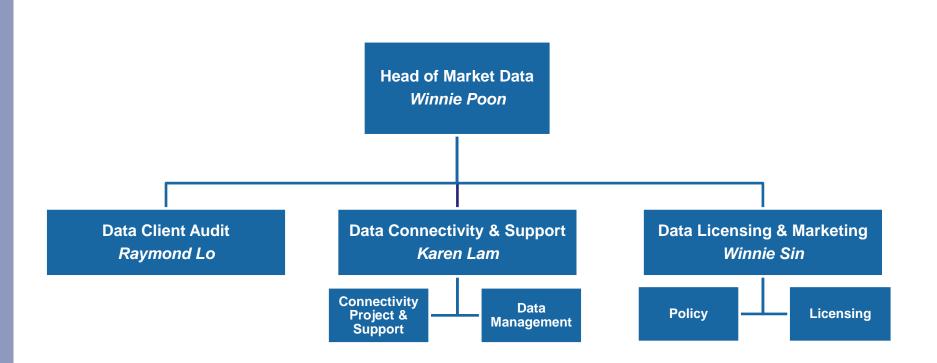
Upcoming initiatives:

- Streamline licence application process
- Consider introducing historical data redistribution licence
- Further promotion on Mainland market data coverage
- Renew Market Data Collaboration Program with Shanghai and Shenzhen Stock Exchanges (AH Collaboration Program)
- Extend Mainland Discount Program

MDD Re-Structuring



Effective 1 Nov 2015



APFIC 2015 Women's Luncheon



Asia Pacific Financial Information Conference 2015

An annual market data conference organized by FISD – an internationally recognized organization that provides a neutral forum supporting the global financial information industry.

HKEx will sponsor this year's FISD Women's Group luncheon in Hong Kong, with details as follows:

Date: 10 November 2015
Venue: HKEx Auditorium

11:30	Registration
12:00	Opening Remarks – Winnie Poon, Head of Market Data, HKEx
12:05	Lunch
12:30	Keynote – Angelina Kwan, Head of Regulatory Compliance, HKEx
13:00	Closing Remarks – Vicky Chan, HKEx Women's Exchange Committee
	Member
13:05	Discussion/Networking

Please visit http://www.siia.net/Events/FISD/eID/271 for more details

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OMD Free Trial Programme on Real-time Premium & FullTick Datafeeds and Historical Full Book



Objectives

- To experience faster and deeper depth market data from OMD via direct connection with HKEx for market transparency.
- To promote the subscription of OMD premium datafeeds and historical full book products

3-month free trial for real-time OMD-C & OMD-D datafeeds

- For new clients
- Include OMD-C and OMD-D Premium and FullTick datafeeds via direct connection

3-month free trial for historical Full Book

- For new clients
- Include securities and derivatives full book data

Program Details

- Real-time Data



Program Details:	Program Details:		
Program Duration	From 1 November 2015 to 31 October 2016, subject to annual review thereafter		
Applicable Datafeeds	 Securities data: Securities Premium and Securities FullTick Derivatives data: Derivatives Premium and Derivatives FullTick 		
Free Trial Period	3 calendar months from the datafeed commencement date or start date of respective connection		
End-User Licence Fee	Waived Applicants who submit the End-User Licence application forms before end October 2016		
Connection Fee	 Waived For eligible End-User Licence applicants, first set of standard connection will be waived For eligible client with dedicated connection via IVs, first set of standard connection wlll be waived 		
Subscriber Fee/ Individual User Fee	• All internal display and non-display usage fees		
One-off Connection Fee	• One-off Connection Fee for respective premium datafeeds		
HSN / HSTN Subscription	 A 3-month contract (instead of standard 24 months) of HSN/HSTN subscription will be offered to clients under this program 		

Program Details

- Historical Data



Program Details	
Program duration	From 1 November 2015 to 31 October 2016, subject to annual review thereafter
Applicable Products	Securities data: • Historical Full Book - Securities Market (Binary) Derivatives data: • Historical Full Book - Derivatives Market (Non-SOM) (Binary and CSV format) • Historical Full Book - Derivatives Market (SOM) (Binary and CSV format)
Free Trial Period	Data of the latest 3 months
Subscription Fee	<u>Waived</u>

New Historical Data Products



To enhance our service offerings for historical data products, HKEx has introduced new historical data products as well as CSV files for some products that are previously available in binary format

Market	Product	Content	Format
	Historical Full Book	Orders (inc. odd lot)TradesReference DataStatus	Binary
Securities	Historical Order and Statistics Update *(new product to replace Bid and Ask Record)	Orders (inc. odd lot)Static Data*Statistics	CSV
	Trade File	TradesTrade Cancel	Binary and CSV
	Trade Ticker File	Trade Tickers	Binary and CSV
Derivatives	Historical Full Book	 Orders and Trades Reference Data Status	Binary and CSV
	Trade File	Trade (inc. block trades)Reference Data	Binary and CSV
	Trade Statistics File	Trade StatisticsReference Data	Binary and CSV

For full product suite, please refer to our Historical Data Product Page https://www.hkex.com.hk/eng/ods/English/asp/prdList.asp

Annual Mainland Conference in Shanghai



Conference De	Conference Details:		
Date & Time	11 December 2015 (Friday) 8:30am – 4:00pm		
Venue	Grand Hyatt Shanghai, Pudong		
Topic	Overview of market data business initiatives and latest development in Mainland		
Speakers	HKEx executives, IV delegates, executives from Mainland financial industry		
Key Participants	Licensed information vendors, Mainland brokers, fund manager as well as other service providers in the financial sector, banks and other financial institutions Capacity: 200 participants		
Booth	Free to IVs on a first come first serve basis		

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Upcoming Client Activities Highlight on Compliance Issues	Vendor Support and Data Management, Market Data



Platform	Activity	Date	Date of Client Notice
HKEx Orion Market	Adjustment of Last Trading Time of London Metal Mini Futures	9 Nov 2015	19 Jun 2015
Data Platform – Derivatives Market	Introduction of New London Metal Mini Futures Contracts	To be announced	13 Oct 2015
(OMD-D)	Bandwidth Increase	Jan/Feb 2016	26 Sep 2015
HKEx Orion Market Data Platform – Securities Market (OMD-C)	New Information on Closing Auction Session (CAS) and Volatility Control Mechanism (VCM)	Q3 2016	5 Aug 2015
Mainland Market Data Hub (MMDH)	Emergency Drill on Site Failover	14 Nov 2015	20 Oct 2015
Issuer Information Feed System (IIS)	Market Rehearsal on Automatic Line Failure Detection and Reconnection	14 Nov 2015	19 Oct 2015

- Adjustment of Last Trading Time (LTT)
- Effective 9 November 2015



Business Change:

The trading hours of the following **London Metal Mini Futures Contracts** on the Last Trading Day will be extended as below to enable investors to react to the underlying assets' price movements between 4:15 pm Hong Kong time and time at which the Official Settlement Price is published

	Tra	Trading Hours on Last Trading Day (Hong Kong Time)			
London Metal Mini Futures Contracts	Day Canaday	After Hour Session			
	Day Session	Current	After Adjustment of LTT		
London Aluminium Mini Futures			During British Summer Time 5:00 pm - 8:00 pm Outside British Summer TIme 5:00 pm - 9:00 pm		
London Copper Mini Futures	9:00 am - 4:15 pm (Remain unchanged)	No After-hour Session	During British Summer Time 5:00 pm - 7:35 pm Outside British Summer TIme 5:00 pm - 8:35 pm		
London Zinc Mini Futures			During British Summer Time 5:00 pm - 7:55 pm Outside British Summer TIme 5:00 pm - 8:55 pm		

System Change:

For London Metal Mini Futures Contracts only, 2 new market states will be introduced to replace the existing market states for the closes of the regular and the after-hour sessions separately. The market states for contracts other than the London Metal Mini Contracts will remain unchanged.

Occasion Otata	Curre	ent	After Adjustmen	t of LTT
Session State	Session Symbol	Status Code	Session Symbol	Status Code
Close of Regular Session	CLOSE_TODAY	18	CLOSE_TODAY_E	21
Close of After-Hour Session	AHT_COSE	10	AHT_CLOSE_E	22





Business Change:

Hong Kong Exchanges and Clearing Limited (HKEx) plans to introduce its second group of London Metal Mini Futures contracts – London Nickel Mini Futures, London Tin Mini Futures and London Lead MiniFutures, pending regulatory approval and market readiness.

London Metal Mini Futures Contracts (Second Group)	Trading Symbol	Commodity Code
London Nickel Mini Futures	LRN	5104
London Tin Mini Futures	LRS	5106
London Lead Mini Futures	LRP	5105

Information Vendors are reminded to return the Vendor Access Code Form to provide us the access codes for obtaining the market data of the above new London Metal Mini Futures Contacts via your terminal services.

- OMD-D Bandwidth Increase
- Effective Jan/Feb 2016



Requirement Change:

The bandwidth requirements of OMD-D datafeed products will be increased as below in January/February 2016.

OMD-D Datafeed Products	Current Bandwidth (Mbps)			Required Bandwidth (Mbps) – Jan/Feb 2016		
OMD-D Dataleed Products	Non SOM	Non SOM Total		Non SOM	SOM	Total
Derivatives Standard (DS)	5	10	15	14	14	28 *
Derivatives Premium (DP)	9	16	25	26	34	60
Derivatives FullTick (DF)	7	12	19	25	35	60
Derivatives Trade (DT)	N/A	N/A	2	N/A	N/A	2 *

^{*} High Performance Option (HPO) is not required for the bandwidth of 30 MBps for DS plus DT

For clients' budgeting purposes, the possible further increases in the bandwidth requirements after the upgraded in January/Februart 2016 are indicated below for reference only. In order to avoid unnecessary line cost being borne by clients, the bandwidth increases, if any, will be implemented progressively in phases if deemed to be more appropriate. Should there be any plan to further increase the OMD-D line bandwidth after January/February 2016, three months advance notice with confirmed bandwidth requirements will be given each time.

OMD-D Datafeed Products	Possible Bandwidth (Mbps) by end 2016			
	Non SOM	SOM	Total	
Derivatives Standard (DS)	37	31	68	
Derivatives Premium (DP)	50	50	100	
Derivatives FullTick (DF)	50	50	100	
Derivatives Trade (DT)	N/A	N/A	2	

- OMD-D Bandwidth Increase
- Effective Jan/Feb 2016



Clients are advised to ensure that your overall systems, including, but not limited to, bandwidths of production circuits, network equipment, downstream network, application systems, etc., are ready for the increased data volume **before the Market Rehearsal in Jan/Feb 2016**.

Direct Connection Clients	Indirect Connection Clients
 Liaise with network carrier for the upgrade of your line bandwidth and network equipment, e.g. router, as necessary 	Upgrade your overall system as necessary for the increased data
 Upgrade your overall system, including applications and downstream networks, as necessary, for the increased data volume 	 Liaise with your feed providing vendors on the arrangements,
 Use the Simulator Tool to test-run your feed-handler and other applications to ensure that they can handle the increased data volume 	e.g. testing arrangement, as necessary for your system to handle the data volume after the bandwidth increase
 Feed providing vendors should make proper arrangement with your feed receiving clients to make sure that they have sufficient capacity to handle the data volume after the bandwidth increase 	

- Closing Auction Session (CAS) & Volatility Control Mechanism (VCM)



- Effective Q3 2016

The following information will be provided by OMD-C after the implementation of CAS and VCM in the Securities Market:

OMD Message	Existing or New?	Change and Usage	VCM	CAS	OMD Channel
	Eviatia a	New data field "VCM Indicator" will be added to indicate that VCM is applicable to the security	✓		ALL:1
Securities Definition (11)	Existing	New data field "CASIndicator" will be added to indicate that CAS is applicable to the security		✓	ALL: 1
VCM Trigger (23)	New	New message to provide the start time, end time, reference price, and upper/lower price limits of the cooling off period once it is triggered by the VCM	✓		SS: 10 SP: 20 – 28 SF: 30 – 38
Trading Session Status (20)	Existing	New values of the existing data fields "TradingSessionSubID" and "TradingSesStatus" to differentiate the various stages in CAS		✓	ALL : 2
Reference Price (43)	New	New message to provide the reference price (same as the closing price of the continuous trading session), and the updates on the upper/lower price limits during different stages in CAS		✓	SS: 10
Order Imbalance (56)	New	New message to provide the order imbalance information at the Indicative Equilibrium Price (IEP) during CAS		✓	SP: 20 – 28 SF: 30 – 38
Indicative Equilibrium Price (41)	Existing	This message will also be applicable to CAS, in addition to the Pre-opening Session		✓	

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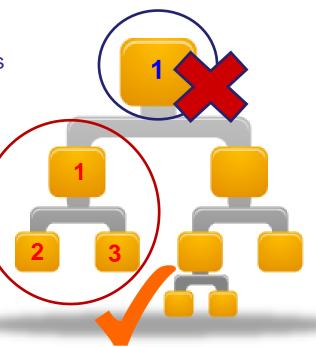
- Misunderstanding in reporting Non-display Usages
- Eight Common non-compliance incidents on Basic Market Price (BMP) service
- Omission in reporting Derived Data
- Under-reporting of Snapshot Usages in Portfolio

- Non-display Usages



(A) Misunderstanding in reporting Non-display Usages

- Non-display Usages are charged at <u>per firm level</u>
- "Per Firm" means:-
 - NOT the licensee itself or its group companies as a whole; and
 - It should be <u>each and every single legal entity</u> that engages in non-display usage (i.e. should report <u>three</u> (but <u>not</u> <u>one</u>) assuming only those three subsidiaries involve in non-display data usages)



- Basic Market Price (BMP) service



(B) Eight Common non-compliance incidents on BMP service

Violations to:-

- 1. Display BMP data on streaming basis;
- 2. Display more than 20 stocks on top twenty lists with BMP data;
- 3. Display more than 20 stocks on portfolio valuation with BMP data;
- 4. Display more than 20 stocks on most recently visited list with BMP data;
- 5. Display more than 5 charting comparison;
- 6. Advisory messages were omitted;
- 7. Indemnifying disclaimer was not available; and
- 8. Failure to prevent direct access to specific BMP result page via bookmarks or other hyperlinks outside the IV's website

- Omission to report fee-liable Derived Data



(C) Chargeability on Derived data

- Any data which can be **easily re-engineered to real-time market price** is **fee-liable**
- e.g. via display of **Market Value** and **Quantity** for each individual stock under portfolio

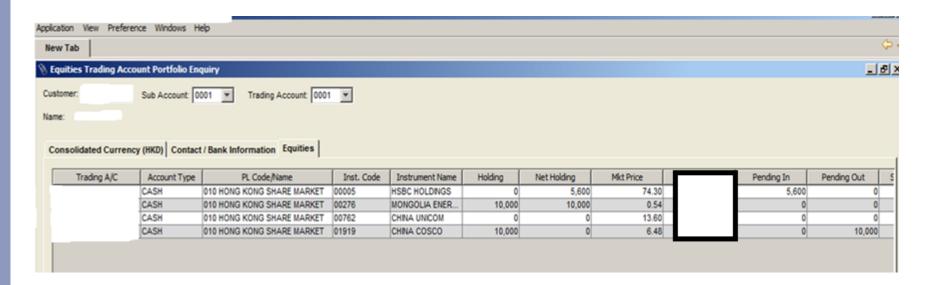






(D) Counting of snapshot usages in portfolio

- Count for each real-time snapshot update and <u>for each and every stock refresh</u> in a basket portfolio
- E.g. Four fee-liable quotes for each refresh of the total 4 stocks in portfolio in the screenshot below





Q&A

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Email: <u>MarketData@hkex.com.hk</u>



Thank you!